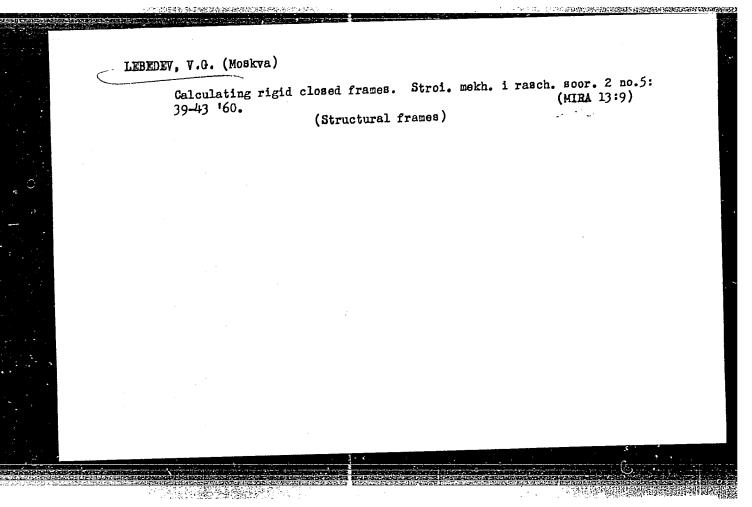
ZUKAKYANTS, Sarkis Avanesovich; IVANAYEV, Miliy Ivanovich; LEBEDEV, Valentin Georgiyevich; ZELEVICH, P.M., inzh., red.; KHITROV, P.A., tekhn.red.

[Underground construction; a follow-up on materials published abroad] Stroitel'stvo podzemnykh scoruzhenii (po materialam zarubezhnogo opyta). Moskva, Gos.transp.zhel-dor.izd-vo. 1959. 86 p. (MIRA 12:3)

(Underground construction)



LEBEDEV, VG

PHASE I BOOK EXPLOITATION

1001

Opyt ekspluatatsii vysokovol'tnykh setey Mosenergo' sbornik statey (Operating Experience of the Mosenergo High-voltage Networks, Collection of Articles) Moscow, Gosenergoizdat, 1957, 79 p. 4,000 copies printed.

Gen. Ed.: Klement'yev, D.P., and Baumshteyn, I.A.; Ed.: Alekseyev, S.V.; Tech. Ed.: Medvedev, L.Ya.

PURPOSE: This collection of articles is intended for engineers and technicians engaged in the operation and repair of high-voltage equipment of power systems. It may also be useful to designers of H-V installations.

COVERAGE: The reports are the result of experience gained in the operation, preventive maintenance, repair and development of electrical equipment in substations and H-V networks. They also contain the first account of the application of telemechanics in network regions of Mosenergo (Moscow Regional Power System Administration). There are no references.

Card 1/7

Operating	Experience	(Cont.)	10	001	
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1001 Operating Experience (Cont.) Yurenkov, V. D., Candidate of Technical Sciences. Experience in Preventive Maintenance and the Use of Insulation for 22 Equipment in 220-kv Substations The author describes the methods employed in preventive testing of separate pieces of equipment at one of the 220-kv Mosenergo substations. This substation was equipped with apparatus of foreign make and put into operation in 1949. The author sums up the experience gained and enumerates the defects of insulation and the methods employed to improve operating conditions. Korolev, A. I., Engineer. Testing the Insulation of Secondary Circuits With Stepped-up D-C and A-C Voltages 31 The author presents the results of tests carried out by the Mosenergo H-V Laboratory and compares the two methods employed: 1,000 volts a-c and 2,000 volts d-c for 1 minute. He finds that test voltages may be stepped up to 1500 volts a-c and 2,500 volts d-c. card 3/7

1001 Operating Experience (Cont.) Borukhman, V. A., and Lebedev, V. G., [Deceased], Engineers. Experience in Substation Telemichanization in Areas of 33 the Mosenergo H-V Network Mosenergo has recently telemechanized 3 regional H-V The authors describe networks comprising 21 substations. the level of telemechanization achieved and discuss problems connected with the telemechanization of synchronous condensers. They describe the basic components required for telemechanization and explain their operation. Kuznetsov, A. I., Engineer. Experience in the Use of Storage 38 The author considers the present set of instructions concerning the operation and maintenance of storage batteries to be out of date and suggests that they be rewritten on the basis of experience gained in this field. He suggests changing the procedure for charging storage batteries, replacing the inadequate mercury are rectifiers of the URV-1 and URV-3 types and improving the operating conditions of the batteries. Card 4/7

Having High Die	ineer. Regeneration of Transformer Oli	49
deterioration of Soviet electric to an increase describes the former oil and	of transformer oil have been observed in of transformer oil have been observed in c power systems. This deterioration is due of the dielectric loss-angle of oil. He percolation method of regenerating transcompares the results obtained with the ter methods.	
Antov. I.S., Engi	neer. Quantitative Determination of Low- er-Soluble Acids Contained in Transformer Oil lefly describes the above method.	51
Yakobson, I. A., The author lis	Engineer. New Pressed Line Connectors sts the disadvantages of conventional line lat PP-type and oval, made by Armset'). the new "pressed" type of connector produced the new "pressed" type of connector produced and the portable MGP-3 hydraulic press	52
Card 5/7		

suitable for splicing wires from 16 so He explains in detail the procedure in	1001 q. mm. to 240 sq. mm. for splicing con-
ductors by this method.  Grinev, S. M., Engineer. Safety Factors Strength During Repairs The author gives data based on experi	for Conductor 60 Lence and on of-
Vinokurov, L. V., Engineer. Vibration of Cable Transmission Lines and Control The author explains the advantages of antivibration device, the so-called "vand compares it with the old types. period of 90,000 vibration absorbers scribed proved their superiority.	f a new type of vibration absorber", The 7-year trial of the type de-
Yurenkov, V. D., Candidate of Technical Yakobson, I. A., Engineer. Safety I Supporting Structures for H-V Transm	Sciences, and Illumination of High mission Lines 65
Card 6/7	

Operating Experience (Cont.)	
The authors describe methods of illuminating supporting structures so as to comply with safety regulations of the USSR Civil Air Fleet. They also discuss the calculation, construction, installation and maintenance or the lighting arrangements.	
Yurikov, P. A., Engineer. Measures for Protecting Trans- mission Line Crossings Against Atmospheric Overvoltages The author explains the regulations and how they should be applied in practice.	75
Batkhon, I. S., Engineer. Calculation of Forces Required for Lifting Supporting Structures by the Nomographic Method The author explains the theory of this method and its practical application.	77
AVAILABLE: Library of Congress	
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KULIKOV, A.G., red.; LEBEDEV V.G., red.; KUDRYAVTSEV, S.P., red.; VORONINA, N.V., red.; KOKOSHKO, A.G., red.; NAUMOV, K.M., tekhn. red.

[Development of socialist industry at the present-day stage; industrial management] Razvitie sotsialisticheskoi promyshlennosti na sovremennom etape; o khoziaistvennom rukovodstve. Moskva, Izd-vo VPSh i AON, 1962. 257 p. (MIRA 15:6)

1. Moscow. Akademiya obshchestvennykh nauk. (Industrial management)

KUZ'MINOV, I.I., prof., red.; LEBEDEV, V.G., kand. ekon. nauk, red.; SMOLDYREV, D.A., , red.; KOKOSHKO, A.G., red.; HAUMOV, K.M., tekhn. red.

[Developing economic theory in the light of the decisions of the 22d Congress of the CPSU]Razvitie ekonomicheskoi teorii v svete reshenii XXII s"ezda KPSS. Pod red. Kuz'minova,I.I., Lebedeva, V.G., Smoldyreva, D.A. Moskva, Izd-vo VPSh i AON, 1962. 249 p. (MIRA 15:11)

1. Moscow. Akademiya obshchestvennykh nauk. 2. Akademiya obshchestvennykh nauk, Moscow (for Kuz'minov, Lebedev). (Economics)

LEBEDEV, Viktor Georgiyevich; MATSUK, R.V., red.; NAUMOV, K.M., tekhn. red.

[On the path to the communist management of production]

[On the path to the communist management of production]
Na putiakh k kommunisticheskomu upravleniiu proizvodstvom.
Na putiakh k kommunisticheskomu upravleniiu proizvodstvom.
Moskva, Izd-vo VPSh i AON pri Tsk KOSS, 1963. 63 p.
(MIRA 16:7)

(Industrial management)

LEBEDEV, Viktor Georgiyevich; MATSUK, R.V., red.; NAUMOV, K.M., tekhn. red.

[Toward the communist form of industrial management] Na putiakh k kommunisticheskomu upravleniiu proizvodstvom. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1963. 63 p. (MIRA 16:6) (Industrial management)

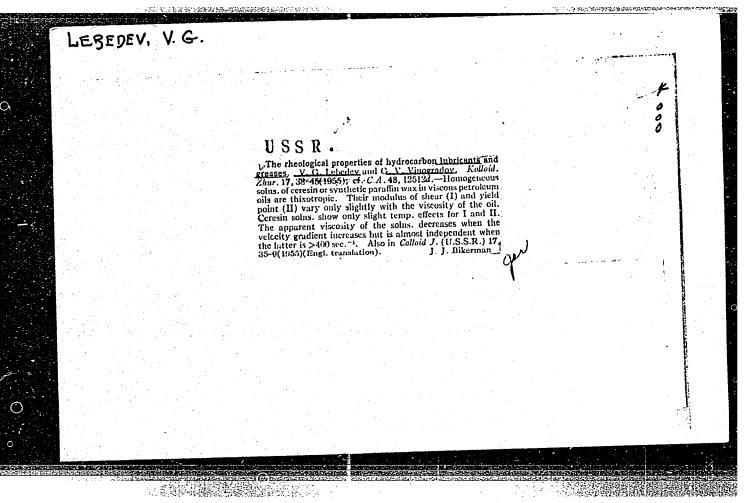
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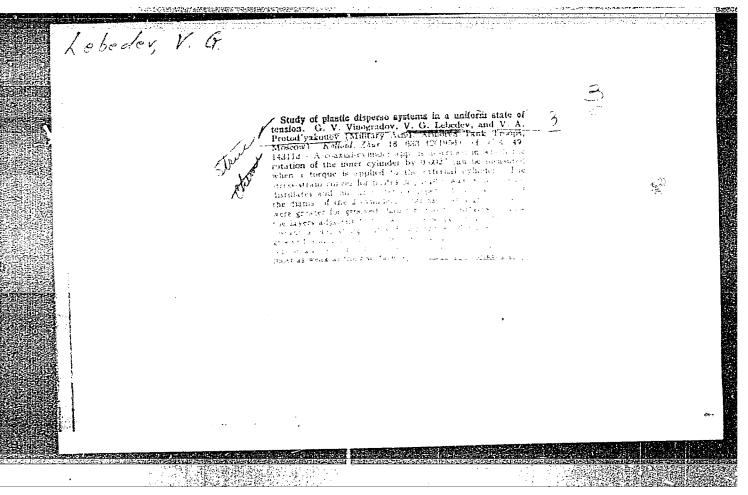
LEBEDBY, Viktor Georgiyevich; ZONOV, S.K., retsenzent; KOCHETOV,
I.M., red.izd-va; MATLYUK, R.M., tekhn. red.

[Growth potentials for labor productivity in the copper industry] Rezervy rosta proizvoditel'nosti truda v mednoi industry] Rezervy rosta Metallurgizdat, 1963. 110 p.

(MIRA 16:7)

(Copper industry-Labor productivity)





LEB	EDEV, V. G.	
	Vinogradov, O.V. and Lebedov, V.O. (Miss. Technol. Topliva (Cass. Technol Fuel, Moscow), 1956, (3): 5-50; ebstr. in Ref. Zh. Khiz. (Ref. J. Chem., Moscow), 1956, (22), 72732). The elastic plastic and viscosity characteristics of lubricants containing solid paraffing were excessed in a special rotation device with ribbed and smooth cylinders.	

5/081/61/000/021/075/094 B138/B101

AUTHORS:

Vishnyakov, V. A., Lebedev, V. G.

TITLE:

Abrasive wear of rolling-contact bearings in the presence of

a lubricant

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 406, abstract 21M120 (Tr. 3-y konferentsii po treniyu i iznosu v mashinakh, M.,

AN SSSR, v. 3, 1960, 198 - 201)

TEXT: The influence of the nature and properties of a lubricant on the process of abrasive wear has been investigated for the case of rollingcontact bearings. The test stand used consisted of the ordinary boss of the track bogie (rotation transmitted from the engine) of a caterpillar vehicle with roller and ball bearings. Plastic grease (Solidol) and mineral oil with a viscosity of 16 centistokes at 100°C were used for the test, and the abrasive was natural dust containing up to 80% quartz. influence of the nature of the lubricant on abrasive wear in rollingcontact bearings was found to be due to sedimentation effect. This is not possible with greases but may occur in oil suspensions. There was

Card 1/2

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Abrasive wear of relling-contact....

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considerably less wear with the oil than with the grease. A study of the kinetics of abrasive wear in rolling-contact bearings shows that it takes place at a diminishing rate and almost ceases after a certain period of time (10 - 15 min. in the experiments). This is because the large particles are broken up (to about  $2\mu$  in size) and then cease to have any abrasive effect. [Abstracter's note: Complete translation.]

Card 2/2

AUTHORS:

Tronev, V. G., Lebedev, V. G.

SOV/78-3-10-8/35

TITLE:

The Synthesis of the Compounds of Germanium Tetrachloride With Some Nitrogenous Addenda (Sintez soydineniy tetrakhlorida germaniya s nekotorymi azotsoderzhashchimi addendami)

PERIODICAL:

ABSTRACT:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2272-2275 (USSR)

The synthesis of  $\operatorname{GeCl}_{\mathcal{A}}$  with oxyquinoline, pyridine and ethylene

diamine was carried out. The compounds have the following

formulae:

 $GeCl_{4}.4 C_{2}H_{8}N_{2}$  (I),  $GeCl_{4}.4 C_{9}H_{7}NO$  (II),  $GeCl_{4}.2 C_{5}H_{5}N$  (III). The compound  $GeCl_2(C_9H_6NO)_2$  (IV) is produced in the pyrolysis of the compound  $GeCl_4.4$   $C_9H_7NO$ . The compound  $GeCl_2(C_9H_6NO)_2.2NH_3$ 

(V) is produced in the interaction of  $GeCl_2(C_9H_6NO)_2$  with dry,

gaseous ammonia at a temperature of 100°C.

The coordination structure of the above-mentioned compounds was

indicated:

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CIA-RDP86-00513R000929020019-9" **APPROVED FOR RELEASE: 08/31/2001** 

307/78-3-10-8/35 The Synthesis of the Compounds of Germanium Tetrachloride With Some Nitrogenous Addenda

$$\begin{array}{c|c}
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There are 1 table and 7 references, 1 of which is Soviet.

May 16, 1958 SUBMITTED:

**在集队和政策的**是第一个

Card 3/3

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**86190** s/078/60/005/008/023/031/XX B023/B066

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1209, 1273, 1282

Lebedev, V. G., Tronev, V. G.

AUTHORS:

Complex Compounds of Germanium Halides With Pyridine,

2,2'-Dipyridyl, and 1,10-Phenanthroline

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1725-1729

TEXT: The authors studied germanium tetrahalide compounds with heterocyclic amines, viz., pyridine, 2,2'-dipyridyl, and 1,10-phenanthroline. The amino compounds were synthesized as follows: To dissolve the organic amine in anhydrous CCl<sub>4</sub> (concentration ~0.05 mole), such an amount of

germanium halide solution (in the same solvent) was added that the ratio of amine: metal was 1.2-1.3 for 1,10-phenanthroline, 1.2-1.3 for 2,2'-dipyridyl, and 2.4-2.5 for pyridine. The mixture was caused to boil for 1/2 hour under dry conditions. It was then cooled down, and sucked off on a porous glass filter. The precipitate was washed out on the filter with dry CCl<sub>4</sub>, then with a small amount of absolute benzene and

Card 1/3

X

Complex Compounds of Germanium Halides With S/078/60/005/008/023/031/XX Pyridine, 2,2'-Dipyridyl, and 1,10-Phenanthro- B023/B066

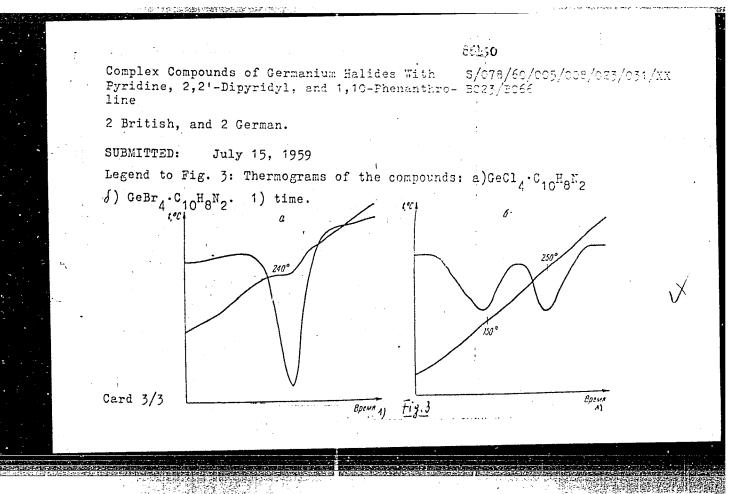
sulfuric ether. The rest of the solvent was put into a vacuum at normal temperature. The solid phase was brought to a constant weight. The yield was 90% referred to germanium, 80% to pyridine, and less to bromides. The resultant substances form white, finely crystalline powders which are hydrolyzable in humid air. These complex compounds might belong to the coordination compounds of the GeH<sub>4</sub>.2A type (H - halogen Cl or Br,

A - pyridine, 1/2 -dipyridyl, 1/2 1.10-phenanthroline). The authors further determined the molecular weight of the complex chlorides (Table 2) which proved to be monomeric. The system  $GeCl_4$ -phenanthroline was studied in

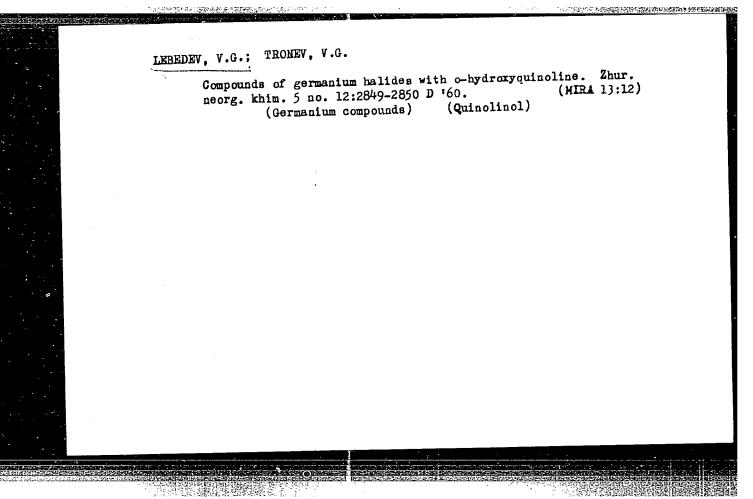
chloroform solution by the optical method. The formation of a  ${\rm GeCl}_4 \circ {\rm C}_{12} {\rm H}_8 {\rm N}_2$  compound was also consistent with the analytical data. The thermal stability was studied with Kurnakov's pyrometer. The heating curves of these substances usually show one or two endothermic effects (Fig. 3, Table 3). A regular change of the thermal stability of GeCl $_4$  and

GeBr compounds with amines was observed A. O Alekseyeva and Chugayev are mentioned There are 3 figures, 3 tables, and 9 references: 5 Soviet.

Card 2/3



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LEBEDEV, V. G.

Cand Chem Sci - (diss) "Study of compounds of germanium with several heterocyclic amines." Moscow, 1961. 12 pp with diagrams; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow State Univ imeni M. V. Lomonosov); 150 copies; price not given; (KL, 6-61 sup, 198)

ACCESSION NR: AP4029846

8/0279/64/000/002/0192/0192

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AUTHOR: Lebedev, V. G.

TITLE: General meeting of the department of physical chemistry and technology of inorganic materials of the Academy of Sciences SSSR

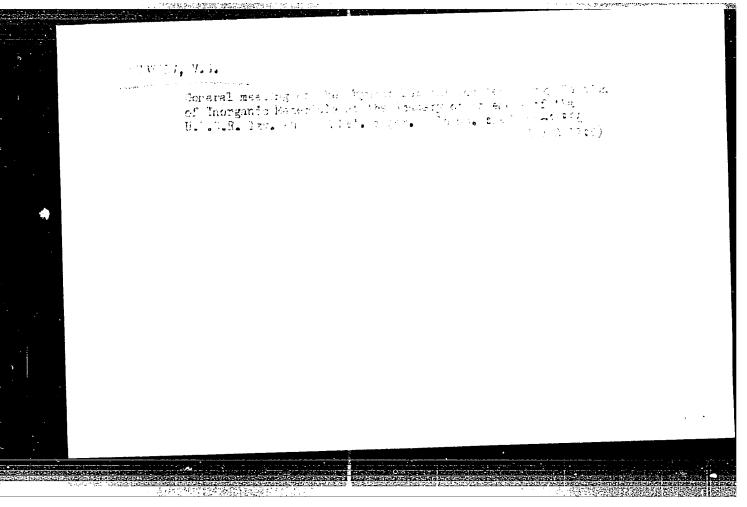
SOURCE: AN SSSR. Izv. Metallurgiya i gornoye delo, no. 2, 1964, 192

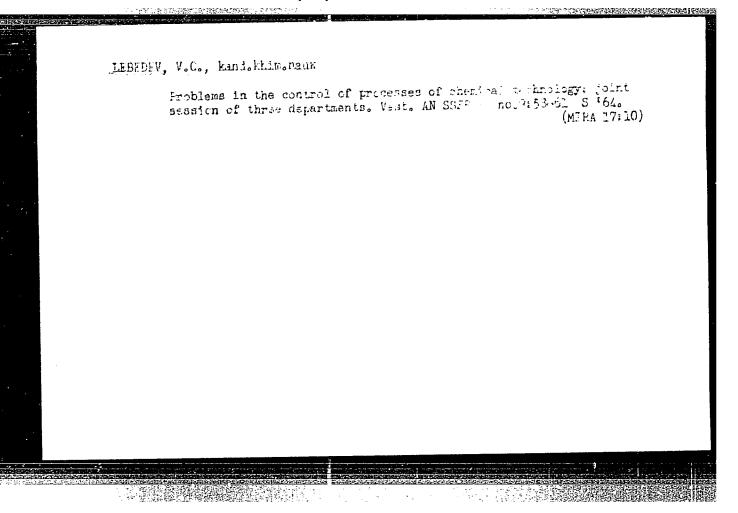
TOPIC TAGS: mechanical engineering, glass, inorganic chemistry

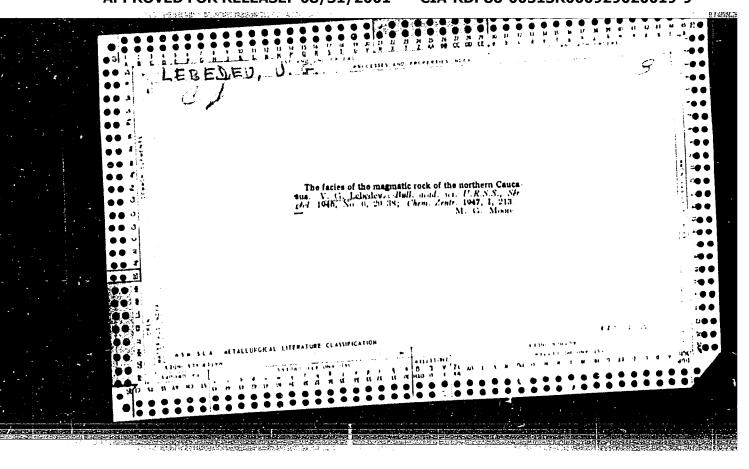
ABSTRACT: The author lists the various papers presented on the 6th and 7th of January 1964. The reports are entitled: Novy\*ye materialy\* dlya khimicheskogo mashinostroyeniya (new materials for chemical mechanical engineering) by G. O. Terzyan; O primenenii titana v khimicheskom mashinotstroyenii (on the use of titanium in chemical mechanical engineering) by N. P. Sazhin; Perspektivy\* ispol'zovaniya stekla i steklokristallicheskikh materialov v khimicheskoy promy\*shlenhosti (perspective of using glass and glass-crystalline materials in chemical industry) by N. A. Toropov; Vy\*sokodispersny\*ye stoykiye konstruktsionny\*ye materialy\* dlya khimicheskoy apparatury\* (highly dispersion-resistant construction materials for chemical equipment) by P. A. Revinder; Novy\*ye materialy\* dlya atomnoy tekhniki

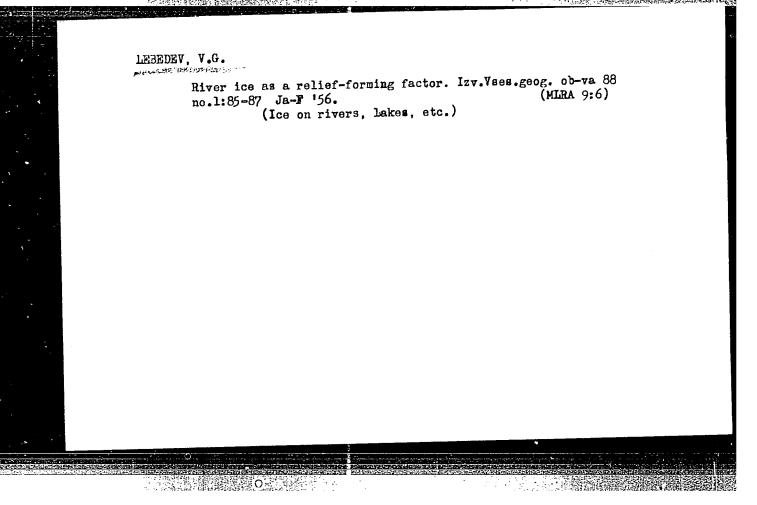
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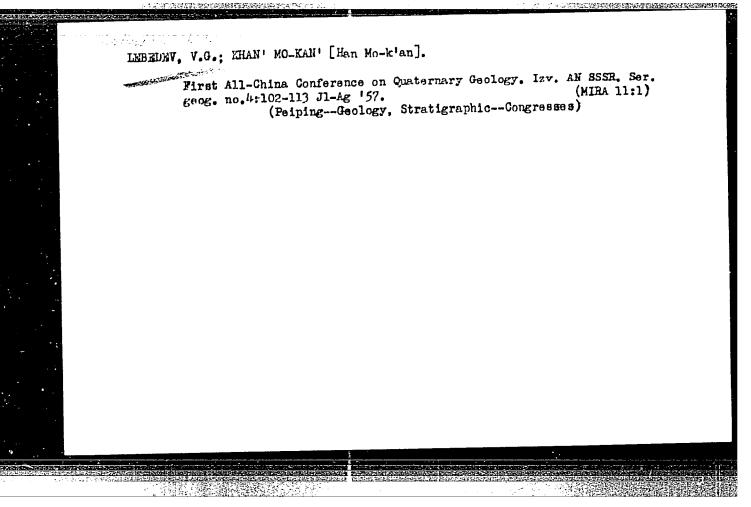
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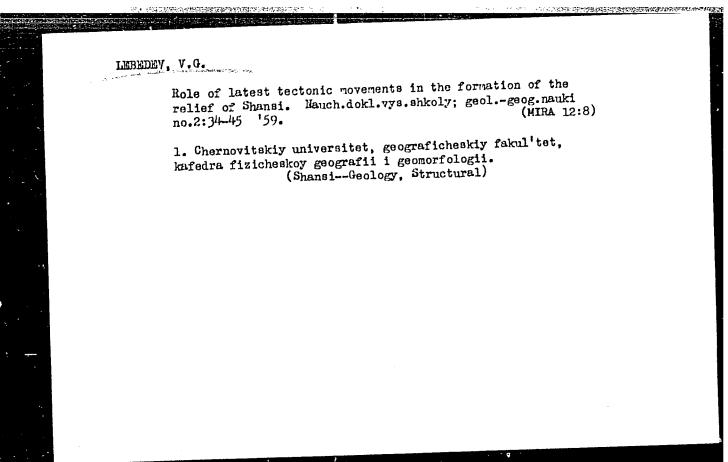


LEBEDEV, V. G.

Dept. Geology and Geography, Peking University

"Some Vital Tasks and Problems in Chinese Geomorphology"

K'o-hsueh T'ung-pao (Scientia), June 1958



2. 由指導基礎的特別的問題的問題的可能的結構的自分的。2014年

AUTHOR: Lebedev V.G.

THE: The Connection of the Present Relief of the West-Ziberian Lowlands With the Mescoencesic Economics

FERIODICAL: Isvestiya Manderdi nauk 2008, Seriya geografiches-kaya, 1999, Nr 2, pp 50-66 (USSR)

ABSTRACE: This article concerns the connection of the nouncein forming processes in South Siberia with the development of the relief of the "quiet" flat sections of the Siberian platform. According to the scientist V.V. Belousov (1994) this platform can be divided into two sections - an "defivated" section and another "not activated" during the process of alpine movements of the cartin's cruat. On the basis of this conception, the author carries out his investigation, which can be summarized in the following conclusions. 1) Within the bardees of the "not activated" section of the alpine plat-

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The Connection of the Frement Relief of the West-Siberian Lowlands With the Responsession Peatonics

form in Mest Siberia, the testonic movements of the sesocenozeic era appeared prevalently in the form of pently sloping elevations and depressions complicated by secondary alevations and depressions with sometimes, faults. Each of these testonic structures is characterized by its own relief type. 2) The south-eastern cargin of the Test-Siberian low-lands is subjected to the considerable influence of processes, which developed in the bordering activated sections of the platform. This finds its expression in the mather complicated prohydrographic rian of the nargin lands, where two distinctly—narked directions prevail. Towards the north-west the influence of the activation process on the relief gradually decreases. 3) lesserting to the development of the individual structures, the surface relief changed within their boundaries, as a result

Card 2/3

307/10-59-3-8/39

The Connection of the Present Melica of the West-Siberian Lowlands With the Masocanopoic Testonics.

of which the single stages of this development are still reflected in a ve reliet forms of the relief. is such may be sonst thread the old channels of the formarly north-cost - south-west directed water discharge. The tectonic development of the structures lead sometimes to a basic rebuilding of the relief and also affected the direction of the surface water discharge. The author refers to the following scientists: V.V. Belousov (already nentioned), V.G. Lebedev, F.G. Gureri, M.F. Magors'riy, F.A. Bagonin, V.C. Vacil yev, V.N. Saks, M.P. Susyev, S.V. Sukhov. There are 2 maps and 14 Seviet references. references.

15 1001ATICH: Thermovitakiy Josephare twennyy universitet (Chermovtsy State University)

Card 3/3

### LEBEDEV, V.G.

Principal morphological and structural features in the central part of the Asian continent. Dokl.All SSSR 132 no.4:899-902 Je '60. (MIRA 13:5)

1. Chernovitskiy gosudarstvennyy universitet. Predstavleno akademikom I.P.Gerasimovym.

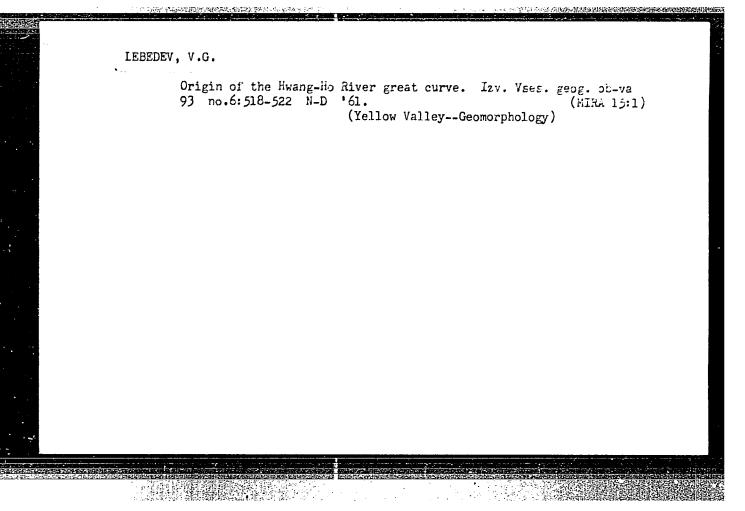
(Asia--Geology, Structural)

## IEBEDEV, V.G. Principles of geomorphological zoning. Vest. Mosk. un. Ser.5: Geog. no.2:48-52 Mr-Ap '61. (MIRA 14:4) 1. Geograficheskiy fakul'tet, Saratovskiy universitet. (Physical geography)

## Recent tectonic movements in North Chira. Geol.sbor. [Lvcv] no. 7/8:335-348 '61. (MIRA 14:12) 1. Gosudarstvennyy universitet, Chernovtsy. (China--Geology, Structural)

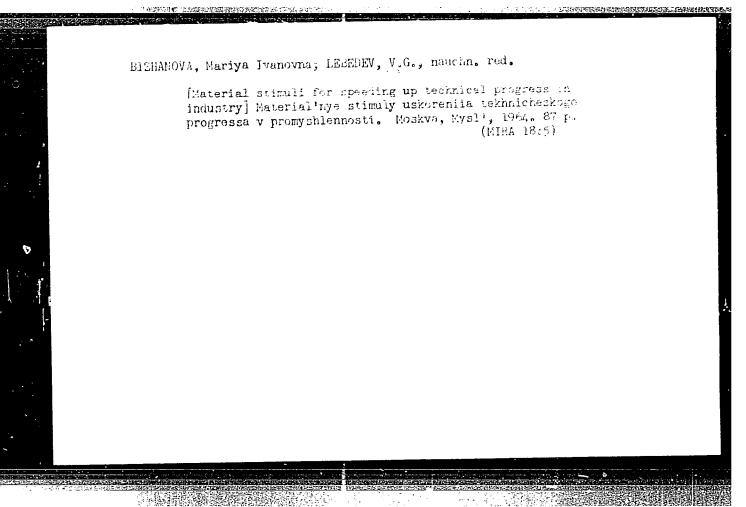
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1017



Geographical Faculty of the Saratov University. Vest.Mcsk. un.
Ser. 5: Geog. 17 no.2:70-73 Mr-Ap '62. (MIRA 15:5)

1. Geograficheskiy fakul'tet Saratovskogo universiteta imeni
Chernyshevskogo.
(Saratov-Geography-Study and tenching)



KULIKOV, A G., red.; LEBEDEV, V.G., red.; RAZUMO , N.A., red.; CHEREDNICHENKO, A.P., red.

[Economic problems of accelerating technological progress in industry] Ekonomicheskie problemy uskoroniia tekhnicheskogo progressa v promyshlennosti. Moskva, Mysl', 1964. 277 p. (MIRA 18:4)

- 1. Akademiya obshchestvennykh nauk(for Lebedev, Cherednichenko).
- 2. Nachal'nik tekhnicheskogo upravleniya Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona (for Razumov).

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### CIA-RDP86-00513R000929020019-9

L 32598-66 EMP(e)/EMT(m)/EMP(w)/ETC(f)/EMG(m)/EMA(d)/T/EMP(t) IJP(c) RDW/JD/ACC NR: AP5018618 WM/JG/JT/WH SOURCE CODE: UR/0030/65/000/007/0089

AUTHOR: Lebedev, V. G. (Candidate of chemical sciences)

ORG: none

TITIE: Some problems in material science

SOURCE: AN SSSR. Vestnik, no. 7, 1965, 87-89

TOPIC TAGS: heat resistant material, scientific conference, crack propagation, ductility, sintering, creep, glass, bending strength, protective coating, metal vapor deposition, electron beam, oxide ceramic, refractory compound, hydrofluoric acid

ABSTRACT: The Scientific Council on "Physicochemical fundamentals of creating new, inorganic, heat-resistant materials" of the Academy of Sciences USSR held its regular session 9-12 March 1965. Several important problems of material science were on the agenda, among them the problem of superstrength materials. Two ways of solving this problem were discussed: the creation of new superstrength materials or the development of special treatments for existing materials.

Card 1/6

L 32598-66

ACC NR: AP5018618

Composites which appear to be the most promising new superstrength materials were subjects of reports by S. Z. Bokshteyn, S. T. Kishkin, and I. L. Svetlov; V. S. Ivanova, I. M. Kop'yev, and L. M. Ustinov; and N. K. Rybal'chenko, M. Yu. Bal'shin, O. B. Belyavskaya, O. V. Padalko, and I. P. Eskin. Composites consisting of relatively soft matrix and high-strength fibers have the best strength indices because of high ductility and high resistance to crack propagation. Whiskers of brittle nonmetals and compounds, such as graphite baluminum oxide, aluminum nitride, and silicon oxide, appear to be the best type of strengthening fibers. The room-temperature strength of whisker-base materials is 100-200% higher and the ratio of tensile strength to specific gravity is 10 times higher than those of modern alloys. At high temperatures, the difference will be even more pronounced. However, many complex problems must be solved before whisker-base composites can be produced in quantity, among them a theory of the strengthening effect of the whiskers, a method ensuring an ordered and uniform distribution of the whiskers in the composites, and a method ensuring a reliable bond between whiskers and matrix.

Card 2/6

I 32598-46 ACC NR: AP5018618

Some interesting results were obtained with so-called "metal felt," which consists of metal fibers (thin wires) whose length is at least one or two orders greater than the diameter. The felt can be formed into blanks or billets which are then sintered at a temperature lower than the melting point of the main part of the felt.

Reports of L. K. Gordienko, F. F. Vitman, T. I. Sogolova, V. A. Kargin, and V. M. Amonenko dealt with special treatments of available metallic and nonmetallic materials. It was shown that the heat resistance of metallic materials can be significantly increased by so-called mechanicothermal treatment (not to be confused with the thermomechanical treatment), in which mechanical energy applied to a metal is absorbed uniformly by the whole metal volume. This results in a peculiar dislocation structure possessing a high creep strength. Further progress in the direction of improving the heat resistance of existing materials by a controlled dislocation structure will depend on the development of a theory of the superstrength state and of scientifically sound methods for attaining such a state for a given combination of temperature and stress.

Card 3/6

L 32598-66 ACC NR: AP5018618

The bend strength of glass can be increased to 250—300 kg/mm<sup>2</sup> by pickling in a solution of hydrofluoric acid, but such a strength can be reached only in a sound glass which has no surface defects. Since defects may originate very easily, a method of protecting the glass surface against any accidental damage is urgently needed.

Oxidation-resistant coatings were the subject of the reports by B. A. Movchan, V. Ye. Ivanov, Ye. P. Nechiporenko, and V. M. Amonenko. Protective coatings with properties which can be varied in a fairly wide range can be obtained by vacuum vapor deposition of aluminum oxide, zirconlum oxide, or chromium with an electron beam as the heat source. Silicide coatings produced by vacuum vapor deposition are greatly superior to those obtained by conventional methods. Thin films of a plastic metal deposited on polycrystalline molybdenum improve the ductility of the latter by 20-30%.

Physicochemical theories of heat resistance and high-temperature properties of materials were discussed in the reports of D. N. Poluboyari-

Card 4/6

L 325[3-60

ACC III: APSIABILIS

P. Yu. Bokin, A. I. Korelova, Ye. M. Savitskiy, G. S. Burkhanov, Ch. V. Kopetskiy, V. F. Terekhova, and T. A. Sidorov.

23

Modern technology requires structural materials capable of operating at high temperatures under high stresses. Lately, parts made of refractory materials, such as pure-oxide ceramics, have found a wide field of application. The Institute of Chemical Engineering im. D. I. Mendeleyev in Moscow has developed special equipment including vacuum furnaces for research at temperatures of 2000—2500C. Important properties of pure-exide ceramics bush as strength at room and elevated temperatures, creep benavior, the coefficient of thermal expansion, the evaporation rate, and the heat conductivity, have been determined.

G. V. Samsonov made an interesting attempt to establish a relationship between the electron structure and physicochemical properties of refractory compounds of transition metals with nonmetals and semimetals, specifically boron, carbon, nitregen, oxygen, aluminum, silicon, phosphorus, sulfur, selenium, and tellurium.

Card 5/6 27

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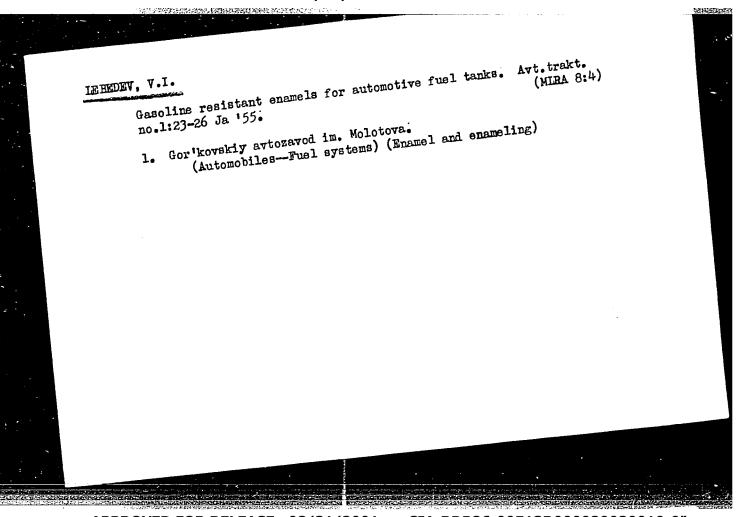
L 32598-66

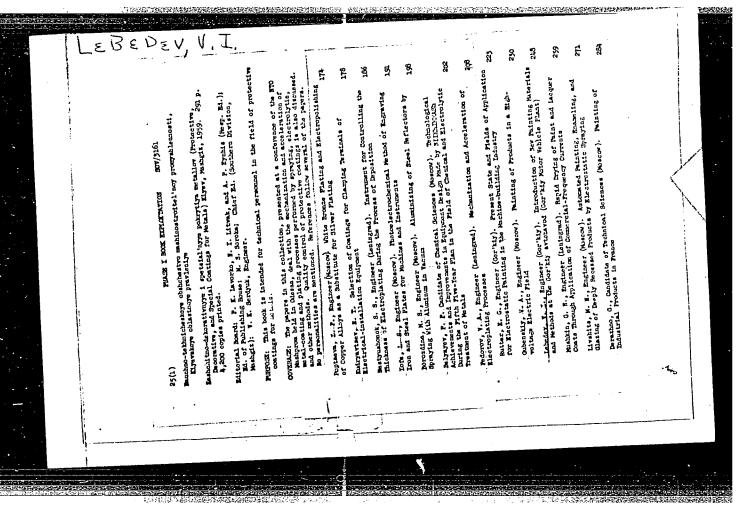
ACC NR: AP5018618

Application of the principles and ideas discussed at the session will assist in determining directions for future research and will help in developing refractory compounds with specifically required properties. FSB: v. 2, no. 3

SUB CODE: 11, 20, 13 / SUBM DATE: none

Card 6/6 / /





LEBEDEV V. I.

Lebedev, V. I.

dand. The . Joi.

Dissertation: "Celection of the shape of through eccentrics for making calicotype fabrics on automatic machines ATC-5." 14 Apr 49

Moscow Textile Inst.

SO Vecheryaya Moskva Sum 71

NIKITIN, M.G., dotsent; LEBEREV, V.I., assistant.

Field study on the action of tuberculin prepared on a synthetic culture medium. Shor. trud. Khar'. vet. inst. 22:259-267 '54.

(NIRA 9:12)

1. Kafedra epizootologii Khar'kovskogo veterinarnogo instituta.

(Bacteriology-Cultures and culture media)

(Tuberculin)

LEBEDEV, V. I.

IEEEDEV, V. I.: "An experiment in restoring the health of kolkhoz cattle farms suffering from tuberculosis, based on enlarged kolkhozes." Min Higher Education USSR. Khar'kov Veterinary Inst. Khar'kov, 1956. (Dissertations for the Degree of Candidate in Veterinary Science).

So' Knizhnays Letopis' No. 22, 1956

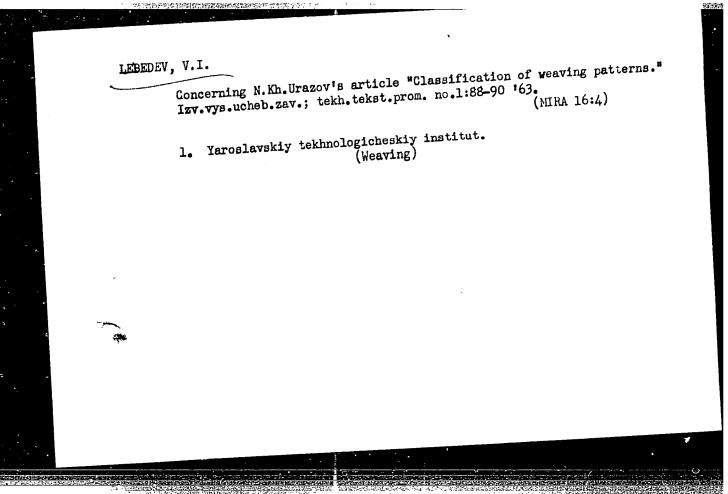
PALLADOV, Sergey Semenovich, dotsent; LEBEDEV, Viktor Ivonovich; GRANOVSKAYA,

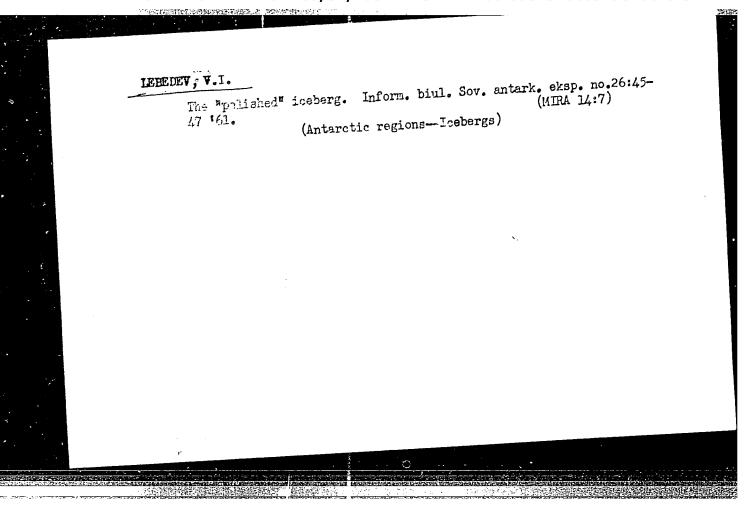
I.E., red.; SUDAK, D.M., tekhn.red.

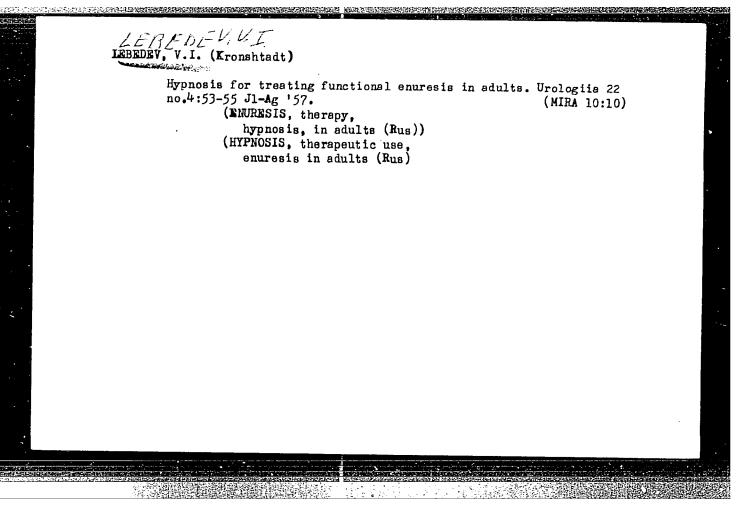
[Fabrics, clothing, rugs] Tkani, shveinye tovary, kovry, Moskva,

(Ge.izd-vo torg.lit-ry, 1959. 344 p.

(Rugs) (Clothing and dress) (Textile industry)







DURNOV, L.A., kand. med. nauk; LEBEDEV, V.I.

Reanimation of an 8-day-old child after a 10 minute period of clinical death. Khirurgiia 39 no.9:127-128 5'63 (MIRA 17:3)

l. Iz khirurgicheskogo otdeleniya imeni Krasnobayeva (zav. - doktor med. nauk I.E.Sandukovskiy) 1-y Detskoy moskovskoy gorodskoy klinicheskoy bolinitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.P. Prokhorovich).

# E-perience in the use of the phage titer growth reaction in enidemiological practice. Zhur. Ekrobiol.,epid.i immun. 40 nc.12:29-33 E '63. (MIRA 17:12) 1. Iz I Moskovskovo ordena lenina meditsinskogo instituta imeni Sechenova.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020019-9"

IEBELEV, V.I.

Some problems in the epidemiology of dysentery in pediatric institutions.

Zhur. mikrobiol., epid. i imm. 41 no. 2:134-138 F '64. (MIRA 17:9)

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni Sechenova.

BONDARENKO, N.A., inzh.; RATNER, A.M., inzh.; SOKOLOV, K.A., inzh.; GUBANOV, N.P., inzh.; SORIN, N.M., inzh.; TARAKANOV, G.P., inzh.; IVANOV, S.M., inzh.; HIRK, A.D., inzh.; ROYKAKH, S.Ye., kand.tekhn. inzh.; Filippov, V.V., inzh.; KHAKIS, L.B., kand.tekhn.nauk; nauk; filippov, V.V., inzh.; YELICHKIN, Ye.A., inzh., red.; KHITROV, P.A., LERENEY, V.I., inzh.; YELICHKIN, Ye.A., inzh., red.; KHITROV, P.A., tekhn.red.

[Hanibook for mechanics of a construction project] Spravochnik mekhanika stroitel'nogo uchastka. Pod red. K.A.Sokolova. Moskva, wekhanika stroitel'nogo uchastka. Pod red. K.A.Sokolova. Moskva, of the seasoful sko-poligr.ob\*edinenie M-va putei soobshcheniia, 1960.

(MIRA 14:3)

(Mechanical engineering) (Road machinery)

(Mechanical construction)

LEBEDEV, Vasiliy Ivanovich; SARGIN, Yu.N., red.; BILENKO, L.S.,

red.izd-va; FOMICHEV, P.M., tekhn.red.

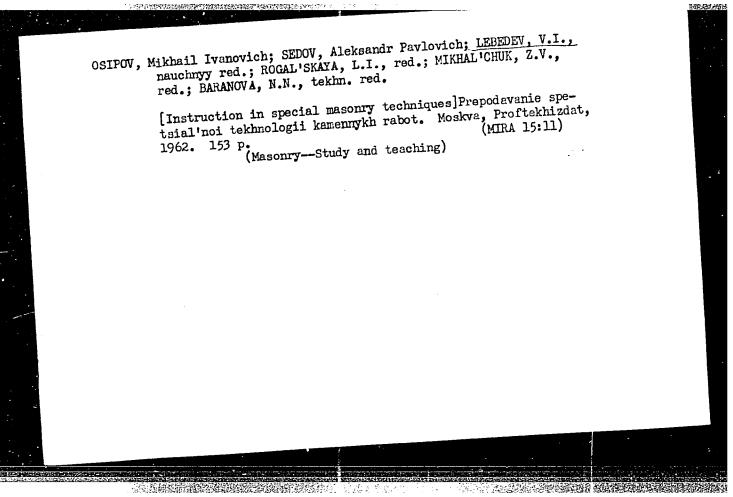
[Local building materials; a practical manual]

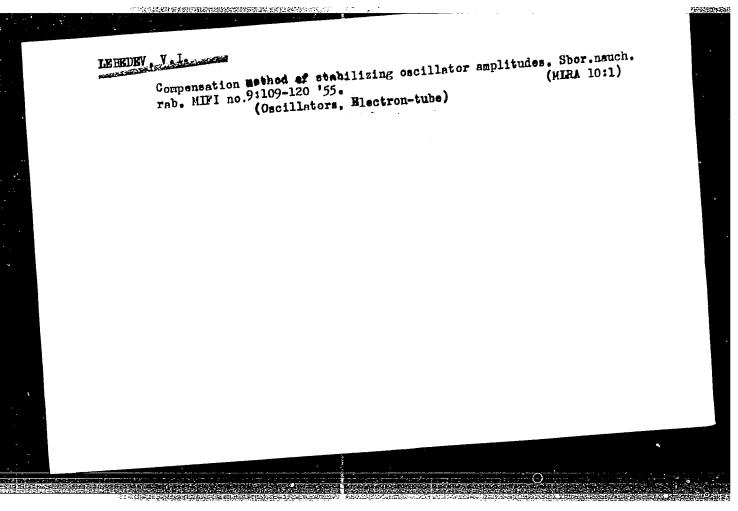
stroitel' nye materialy; prakticheskoe posobie. Moskva,

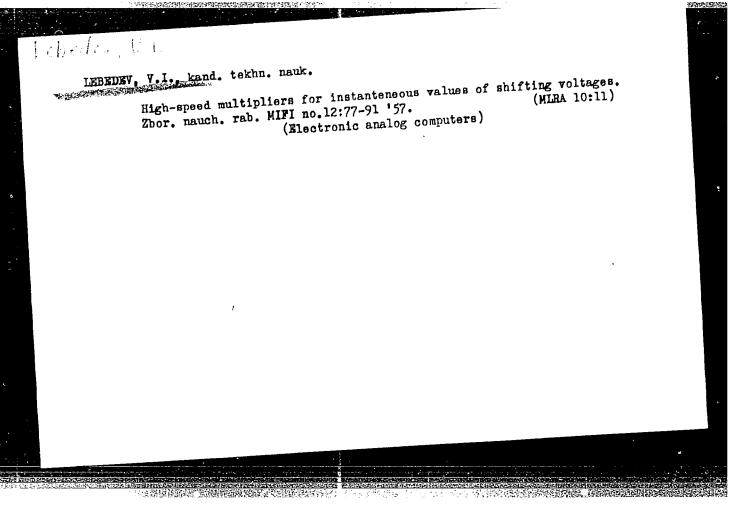
stroitel' nye materials, 98 p.

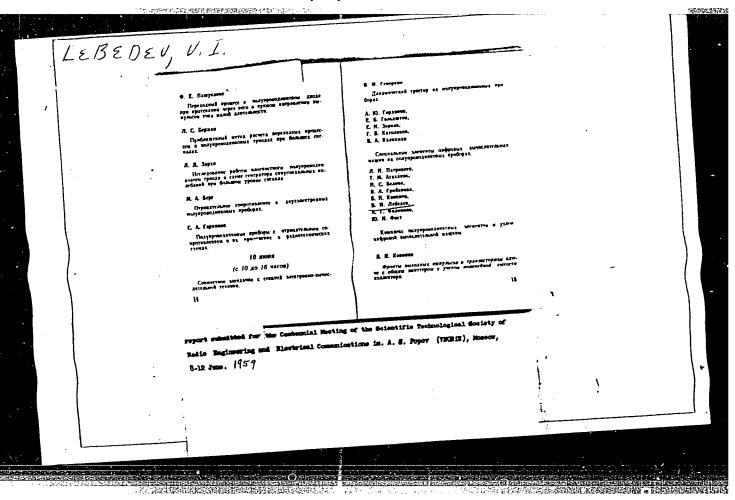
Izd-vo TSentrosciuza, 1961. 98 p.

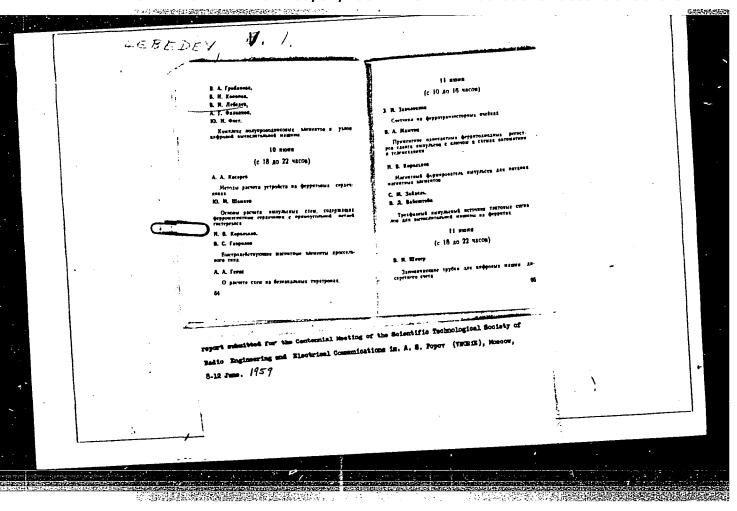
(Building materials)











"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020019-9 sov/1778 PHASE I BOOK EXPLOITATION . LEBEDEV, VI. Nauchno-tekhnicheskoye obshchestvo priborostroitel noy promyshlennosti. Moskovskoye pravleniye Tranzistornaya elektronika v priborostroyenii; sbornik trudov anzistornaya elektronika v priborostroyenii; sbornik trudov konferentsii (Transistor Electronics in the Instrument-making Konferentsii (Transistor Conference Transactions) Moscow Tradustry: 9(4) konferents11 (Transistor Electronics in the Instrument-mak Transactions) Moscow, Industry; Collection of Conference Transactions) Moscow, Oborongiz, 1959. 289 p. 1,400 copies printed. Ed.: N.I. Chistyakov, Doctor of Technical Sciences, Professor;
Ed. of Publishing House: S.D. Khametova; Tech Ed.: V.P.

Rozhin; Managing Ed.: A.S. Zaymovskaya, Engineer. The book is intended for scientific and engineering personnel of the instrument of allot marks and radio industries personner of the development of electronic and radio equipment. The authors of this collection of articles discuss PURPOSE: the theory, principle of operation, calculation and application of electronic circuits using transferors. They also cation of electronic circuits using transistors. card 1/12

Transistor Electronics (Cont.)

sov/1778

describe transistor application in measuring circuits, computers, radio and automatic and remote control circuits. The book is based on transactions of the Scientific and Engineering Conference organized by NTO in Moscow in December 1956. The conference discussed 54 papers on thermistors, photocells, thermocouples, cooling elements, nonlinear capacitors, crystal diodes, and transistors. A considerable number of these papers have been included in the present book. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

3

5

O.G. Yagodin, Candidate of Technical Sciences. Determination of Point-contact Transistor Parameters Under The author discusses the operation and characteristics Dynamic Conditions

of transistors and describes methods of obtaining their parameters. Particular attention is given to the operation of a transistor amplifier with regenerative

Card 2/12

CIA-RDP86-00513R000929020019-9" APPROVED FOR RELEASE: 08/31/2001

sov/1778 Transistor Electronics (Cont.) feedback. Operation of circuits used for experimentally determining transistor parameters is also discussed. There are 4 references of which 2 are Soviet, and 2 English N.K. Povarov, Candidate of Technical Sciences. Electronic 25 Devices Fed by Current Generators The author describes the static and dynamic characteristics of nonlinear elements and discusses their equivalent circuits. He also describes the operation and characteristics of vacuum phototubes, vacuum-tube amplifiers, transistors, cascade amplifiers, and oscillators connected to a current generator. There are 8 references of which 7 are Soviet and 1 English. V. Ya. Sutyagin, Engineer. Average-current Transistor 39 The author discusses the operation and characteristics Amplifiers Card 3/12

Card 1/2

507/142-2-1-11/22 9(3) Lebedev, V.I. AUTHOR: Restoration of Pulsed Voltage Direct Component in (Vosstanovleniye TITLE: the Case of Transformer Coupling postoyannoy sostavlyayushchey impul'snogo napryazheniya pri transformatornoy svyazi) Izvestiya vysshikh uchebnykh zavedeniy - radiotekh-PERIODICAL: nika, 1959, Vol 2, Nr 1, pp 86-93 (USSR) The author investigates problems connected with the regeneration of the direct component of a pulse ABSTRACT: voltage, transmitted by a transformer. The regeneration is achieved by a diode, connected in series with the load. He established that the regeneration is most effective when a current generator serves as an input signal source. The regeneration is less effective, when the signal source is a current generator only during the time interval and when its internal resistance is of a small value during the pulse. The regeneration of the direct component is impossible when the pulse voltage source is a volt-

SOV/142-2-1-11/22

Restoration of Pulsed Voltage Direct Component in the Case of Transformer Coupling

age generator. The application of a diode discriminator circuit is desireable for eliminating false pulses. However, in this case the regeneration will be effective only under the condition that the discriminator circuit resistance is greater than the load resistance. In case the application of a regeneration diode is ineffective, the transformer inductance must be reduced to a permissible magnitude in respect to pulse peak transmission. If it is possible to select the signal sources, one should be used having a low internal resistance during the pulse and a high resistance during the interval. There are 4 circuit diagrams, 6 graphs, and 5 references, 2 of which are American and 3 Soviet.

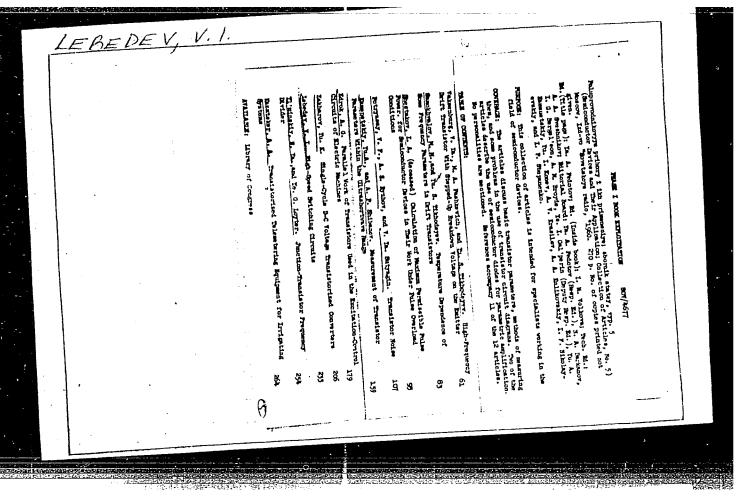
ASSOCIATION: Kafedra elektroniki Moskovskogo inzhenerno-fizicheskogo instituta (Chair of Electronics of the Moscow

Institute of Physics Engineering) June 18, 1958

SUBMITTED:

Card 2/2

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020019-9"

s/142/60/000/003/012/017 E192/E482

9,25.20 (1020, 1150,1154)

Transistor Circuits With a High Input Impedance Lebedev, V.I AUTHOR:

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,

1960, No.3, pp.386-393

First an emitter follower is considered. The input impedance of this system is illustrated in Fig.la. (1)given by

 $Z_{BX} = r_g + (1 + \beta) \cdot (r_3 + R_{3KB} || x_c)$ 

 $\beta$  is the current gain of the transistor and

Rake 
$$\|\mathbf{x}_{c}\| = \frac{\mathbf{Rake} \cdot \mathbf{x}_{c}}{\mathbf{Rake} + \mathbf{x}_{c}} = \frac{\mathbf{Rake}}{1 + \mathbf{p} \cdot \mathbf{Rake} \cdot \mathbf{CH}}$$

The equivalent resistance in this equation is given by

$$R_{\mathfrak{B}} = \frac{R_{\mathfrak{B}} \cdot R_{\mathsf{H}}}{R_{\mathfrak{B}} + R_{\mathsf{H}}}$$

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Transistor Circuits With a High Input Impedance

where  $R_{\mathfrak{P}}$  is the resistance in the emitter of the circuit and  $R_{\mathsf{H}}$ is the load resistance (see Fig.la). If the base and the emitter resistances of the transistor are neglected, the equivalent input impedance can be expressed by Eq.(2), where  $\tau_{\beta}$  is the effective At very low frequencies this expression can be written If the collector resistance rk is taken into account, life-time. Eq.(3) can be written as Eq.(3a). From Eq.(3) it is seen that the input resistance can be of the order of hundreds of k $\Omega$ . given transistor, the value of the input resistance is determined by the load resistance  $\,R_{\mbox{\scriptsize H}}^{}$  . If it is necessary to use a low  $\,R_{\mbox{\scriptsize H}}^{}$ it is advisable to employ the circuit of Fig.1, whose input resistance is independent of the load resistance. In practice, the input resistance of the circuit can be the value of half the From Eq.(3) it is also seen that the input collector resistance. resistance can be increased by increasing  $\beta$ . This can be achieved in compound emitter followers (Ref. 2, 3 and 4), such as shown in Fig.2. However, the input resistance of a simple emitter follower or a compound follower cannot be made higher than the

Card 2/5

S/142/60/000/003/012/017 E192/E482

Transistor Circuits With a High Input Impedance

collector resistance  $r_k$  unless a feedback circuit is introduced between the collector and the emitter (Ref.2,5 and 6) such as shown in Fig.3. The maximum input resistance of the circuit of Fig.3 is expressed by

$$R_{\text{BX max}} = \frac{r_{\text{k}}}{1 - k_{\text{u}}} \tag{4}$$

where  $K_u$  is the voltage transfer factor of the device. In the case of a compound emitter follower (see Fig.2) it is possible to introduce a feedback capacitance in the manner illustrated by the dotted line. In this way it is possible to increase the input resistance to several Mal. The frequency dependence of the input impedance of the emitter follower can be approximately represented by Eq.(5), while that of the compound emitter follower is given by Eq.(6). The dependence of the input impedance on frequency of a compound emitter follower for various values of the equivalent resistance  $R_{\text{MR}}$  is illustrated in Fig.4 and 5. The stability of Card 3/5

S/142/60/26/0000012/017 E192/E482

Transistor Circuits With a High Input Impedance

the input resistance is primarily determined by the stability of the current gain  $\beta$ . This parameter is in turn dependent on the The effect of ambient temperature and the collector current  $\mathbf{I}_{\mathbf{k}}$ . various temperatures on the input impedance of a compound emitter follower is illustrated in Fig. 5. The variation of the input impedance due to temperature changes for two different compound emitter followers is shown in Fig. 6. The dependence of  $\beta$  on the emitter current is illustrated in Fig.7 for three different samples of the transistor type  $\Pi14$ . The temperature stability of  $R_{\mbox{\footnotesize{BX}}}$ of a compound emitter follower is determined by the operating point R<sub>BX</sub> can either increase or decrease with increasing temperature depending on the position of the operating Normally the emitter current of the first transistor should be greater than the operating collector current of the second transistor at the maximum operating temperature. At temperatures higher than 40°C, it is advisable to employ silicon There are 8 figures and 8 references: 2 Soviet and transistors. 6 non-Sovieta Card 4/5

\$/142/60/000/003/012/017

E192/E482

Transistor Circuits With a High Input Impedance

ASSOCIATION: Kafedra elektroniki Moskovskogo inzhenergo-

fizicheskogo instituta

(Department of Electronics of Moscow Engineering

Physics Institute)

SUBMITTED: November 17, 1959

Card 5/5

BELOUSOVA, N.V.; LEBEDEV, V.L.

Disruption in the tracking of an automatic frequency control system. Radiotekhnika 18 no.10:35-42 0 '63. (MIRA 16:12)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S.Popova.

ACCESSION NR: AP4024482

\$/0142/64/007/001/0012/0020.

AUIHOR: Lebedev, V. I.

TITLE: Transistorized current stabilizers

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 1, 1964, 12-20

TOPIC TAGS: current stabilizer, feedback stabilizer, reference diode stabilizer, pnp transistor stabilizer, differential stage stabilizer, adjustable output current stabilizer, current limit, internal resistance, stabilization coefficient.

ABSTRACT: Three types of transistorized current stabilizers are described, and expressions are derived for the stabilization coefficient and for the internal resistance of each. One type uses a reference diode, the other a pnp transistor, and the third a differential amplifier stage. It is shown that transistorized current stabilizers are less expensive and more reliable than vacuum-tube stabilizers. The temperature instability of the load current is analyzed. The stabilizer circuit described can also be designed for a variable stable output current. The current limit is 10 amperes, the internal resistance limit is 1 megohm, and the maximum coefficient of stabilization is 100. The main difficulty

Card 1/4

ACCESSION NR: AP4024482

is to prevent the stabilized control amplifier from drifting, and can be eliminated using a transistor in the switching mode. Orig. art. has: 6 figures and 18 formulas.

ASSOCIATION: None.

SUBMITTED: 15Jan63

DATE ACQ: 15Apr64

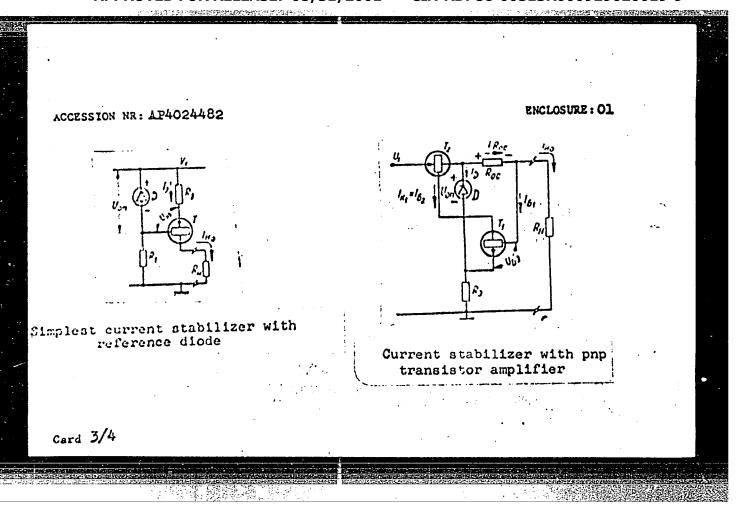
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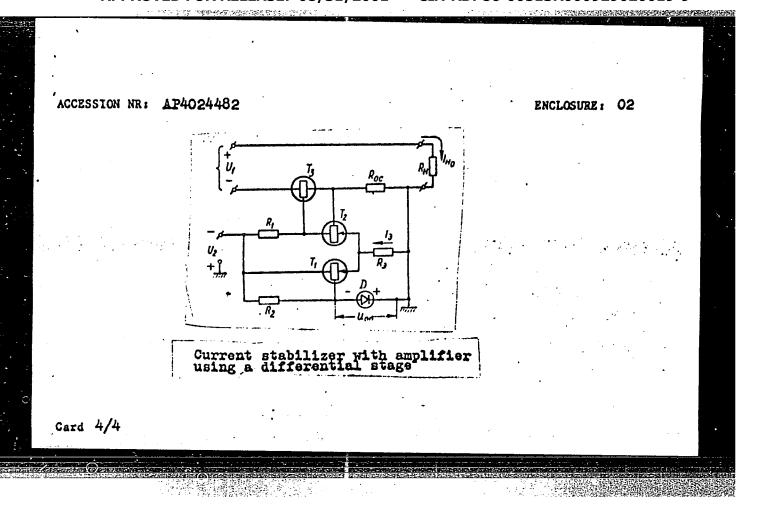
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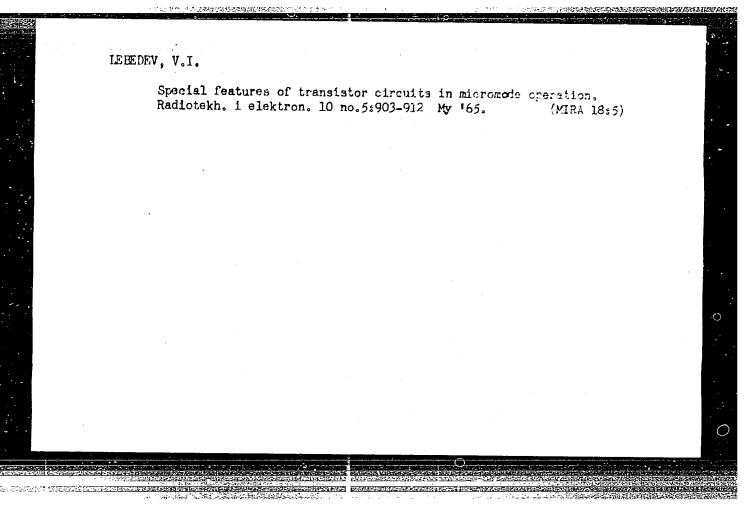
NR REF SOV: 003

OTHER: 002

Card 2/4







L 60875-65 EWT(1)/EWT(m)/EWP(t)/EEC(b)-2/EWP(b)/EWA(h) ACCESSION NR: AP5017671 UR/0109/65/010/007/1328/1334 621.374.325.4

AUTHOR: Lebedev, V. I.

TITLE: Silicon transistor flip-flop in the microregime

SOURCE: Radiotekhnika i elektronika, v. 10, no. 7, 1965, 1328-1334

TOPIC TAGS: flip flop, microminiaturization, bistable multivibrator, DTL flip flop

ABSTRACT: A diode transistor logic flip-flop is analyzed. The flip-flop consists of two P502 silicon transistors 6 D223 Si diodes, and 6 resistors. Analysis and synthesis equations are derived for power consumption as a function of the transistor current gain  $\beta(Ic)$ , operating temperature range  $\Delta T$ , bias supply variation tolerance  $\delta E_C$ , resistor tolerance  $\delta r$ , fan-out n, and degree of transistor saturation. It is shown that minimum power consumption should be no lower than 1 mw, below which flip-flop switching time increases sharply. The figure of merit D = nF/P (where F is the operating frequency, n, the load capability and P, the power consumption) for the DTL is 10 times greater than that of the DCTL (direct-coupled transistor logic) flip-flop and four times greater than that of the current-switching mode. The results show that the DTL flip-flop consumes more power than a DCTL but in gen-

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ral requires fewer transist	Ore and has a high-	0	0
or microminiaturization. A	working model design	fan-out. Hence, it is more ed with $\delta E_C = \pm 20\%$ , $\delta_T = \pm 20\%$	suitable
imption of only 1 mw. Orig	tisfactorily at a fre ert. has: 7 figure	ed with $\delta E_c = \pm 20\%$ , $\delta_r = \pm 20\%$ quency of 200 kc, with power	con-
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SOURCE CODE:

CODE: UR/0208/66/006/002/0251/0275

AUTHOR: Lebedev, V. I. (Moscow)

a B

ORG: none

TITLE: The method of characteristics for the solution of the kinetic equation

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 2, 1966, 251-275

TOPIC TAGS: boundary value problem, difference equation, approximate solution,

ABSTRACT: Difference equations arising in the solution of the kinetic equation by the method of characteristics are studied. The difference equations introduced are free of the defects of former difference schemes in that they do not require repeated calculations of transcendental functions, are monotonic, and offer a good approximation of the difference operator to the differential operator. Difference equations are first adduced for the general case of the kinetic equation and then for the more difficult univariate case of an infinite cylinder. As far as possible, the difference schemes used are those employed in solving problems by the KR method (cf. V. I. Lebedev in Chislennye metody resheniya zadach matem. fiz.; "Nauka", Moscow, 1966). Experience with this method shows it to be practicable in solving problems for a reactor and for a cell having a complex medium distribution. The convergence of the KR method

UDC: 517.9:533.9

Card 1/2

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CIA-RDP86-00513R000929020019-9

ACC NR: AP6032936

SOURCE CODE: UR/0208/66/006/005/0895/0912

AUTHOR: Lebedev, V. L (Moscow)

ORG: none

TITLE: Finding the solutions of kinetic problems

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 5, 1966,

TOPIC TAGS: transport equation, kinetic equation, periodic solution, iteration

ABSTRACT: To clarify the nature of the approximation of the solutions of difference problems to exact solutions, solutions are found for the kinetic equation pertaining to particle transport and written in self-adjoint form (cf. V. S. Vladimirov. Tr. Matem. in ta AN SSSR,1961, 11). Further, Case's findings (K. M. Case. Elementary Solutions of the Transport Equation and Their Applications. Ann. Phys., 1960, 9, 1-23) are extended to the q-variate case, and a fundamental solution is found for the m-group problem. A solution is also found for the m-group periodic problem. A variant of the iterative KP-method (V. I. Lebedev, Zh. vychisl, matem. ¢ matem. fiz., 1966, 6, no. 2, 251-275) is applied to the solution of m-group problems. The

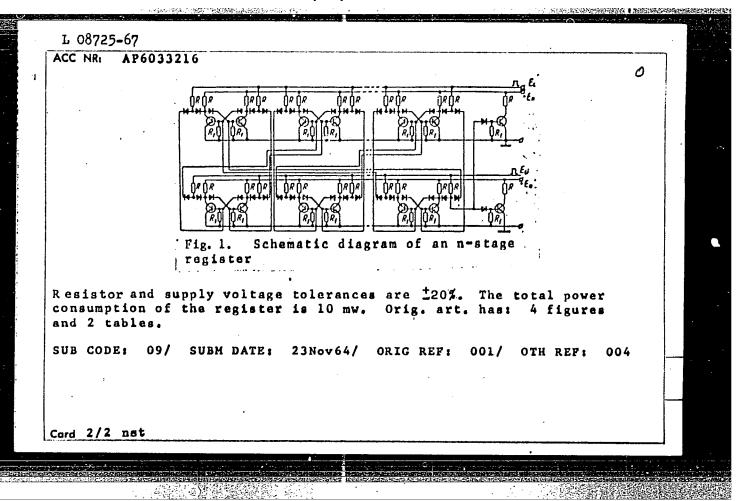
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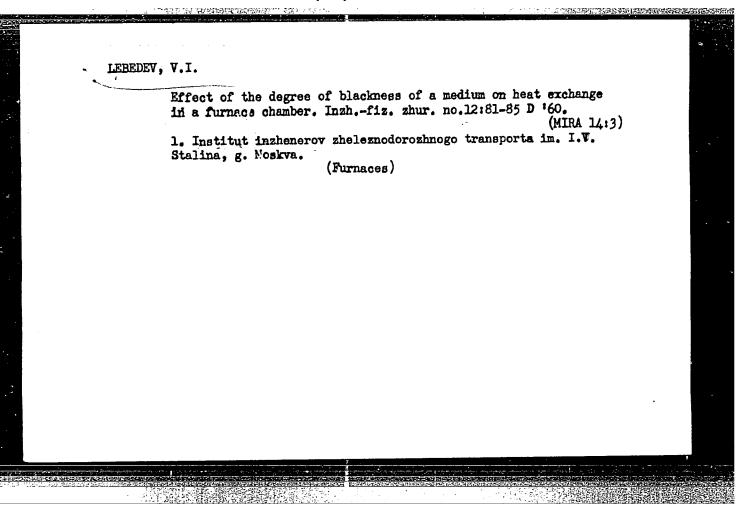
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cannot be furthe	r refined. "The au f Section 2." Orig	thor is indebt	ed to N. I. I				10
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IJP(c) BB/GG SOURCE CODE: UR/0142/66/009/004/0492/0496 EWT(d)/EWP(1)L 08725-67 AP6033216 ACC NRI Arkhangel'skiy, A. Ya.; Lebedev, V. I.; Fost, Yu. N. 44 AUTHOR: org: TITLE: Register with silicon transistors in a microregime none SOURCE: IVUZ. Radiotekhnika, v. 9, no. 4, 1966, 492-496 TOPIC TAGS: computer memory, transistorized circuit, TRIGGER CIRCUIT ABSTRACT: A low-power, solid-state dynamic register is described. The register (see Fig. 1.) uses P502 V transistors and D523 B diodes. MLT resistors R and R1 are 30 and 100 k $\Omega$ , respectively. Each trigger uses about 1 mw of power; adjacent stages are coupled with diodes. fan-out of the register is three (n = 3). A five-stage register was tested with n = 3 and 4. The lower limit of the clock oscillator pulse amplitude was raised (nominal amplitude is 8 v) for n = 4 at an operating temperature of 22C; it was further raised for a temperature of -60C. The operating temperature range of the register is \*60C. 621.374.325.4:621.382.3 UDC: Card 1/2 '





GORYAINOV, L.A., inzh.; KUMSKOV, V.T., kand.tekhn.nauk; LEBEDEV, V.I., inzh.

Studying the heat exchange in the furnace of a boiler by means of a model and of the furnace itself. Trudy MIIT no.136:87-92 (MIRA 14:12)

'61. (Heat—Transmission) (Furnaces—Testing)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020019-9"

# "APPROVED FOR RELEASE: 08/31/2001

## CIA-RDP86-00513R000929020019-9

5/196/62/000/015/003/008 E194/E155

The influence of the degree of blackness of a furnace

medium on heat exchange in combustion chambers AUTHOR: TITLE:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.15, 1962, 11, abstract 15 G 61. (Tr. Mosk. in-ta

inzh. zh.-d. transp., no.139, 1961, 90-101)

The object of the work was to confirm experimentally that the temperature distribution of a furnace medium retains the same modelling conditions for various degrees of blackness. test equipment and experimental procedure are described and illustrated. The degree of blackness of the furnace medium was altered by the addition of chromo-magnesite dust of constant grain size distribution. and  $q_{\ell}/q_k = f(Re)$ 

of the relationship.  $T_2/T_1 = f(Re)$ 

for various concentrations of dust in the furnace medium, where; Card 1/2

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The influence of the degree of ...

 $T_{pot}$  - the mean flow temperature;  $T_1$  - the theoretical combustion temperature;  $T_2$  - the gas temperature at discharge from the chamber;  $q_\ell$  and  $q_k$  - the specific thermal loadings of the heataccepting surface, resulting from radiant and convective heattransfer. The relationships obtained indicate that the modelling conditions of the temperature distribution in the chamber are unchanged and also that increasing concentration of dust in the furnace medium increases the absolute gas temperature in the discharge section of the chamber, i.e. heat transfer from the gas to the heat-accepting surface is reduced. The relationship  $q_{\ell}/q_k$  = = f(Re) is plotted from the test results obtained with air blowing, and indicates that as the absorption factor of the furnace medium increases the radiant component of the total heat transfer is reduced and the convective component increased. The results may be used to calculate total heat-transfer in cooled combustion chambers. 12 references.

[Abstractor's note: Complete translation.]

Card 2/2